

CLAIMS

What is claimed is:

1. A microwave oven, comprising:
a cabinet partitioned into a microwave cooking cavity, a toasting cavity, and a machine room;
a microwave generating unit installed in the machine room to generate microwaves into the microwave cooking cavity;
a heating unit installed in the toasting cavity to heat the toasting cavity; and
a ventilating unit to ventilate the toasting cavity.
2. The microwave oven according to claim 1, wherein the toasting cavity is located above the microwave cooking cavity, and the machine room is located at a side of the toasting cavity and the microwave cooking cavity.
3. The microwave oven according to claim 2, wherein the heating unit comprises an upper heater installed at an upper position in the toasting cavity, and a lower heater installed at a lower position in the toasting cavity, and
a grill member is located above the lower heater, with bread being placed on the grill member.
4. The microwave oven according to claim 2, wherein the ventilating unit comprises:
an air inlet port provided at a predetermined location on a sidewall between the machine room and the toasting cavity;
a ventilating fan mounted at the location on the sidewall through which the air inlet port is formed, thus circulating air from the machine room into the toasting cavity; and
an air outlet port located at a predetermined location on a wall of the toasting cavity to discharge air from the toasting cavity to an outside.
5. The microwave oven according to claim 4, further comprising a deodorizing filter at the portion of the wall through which the air outlet port is formed, thus removing odors from the air which is discharged from the toasting cavity to the outside of the microwave oven.
6. The microwave oven according to claim 2, wherein the toasting cavity and the

microwave cooking cavity are opened at fronts thereof, and doors are mounted to the open fronts of the toasting cavity and the microwave cooking cavity, thus opening or closing the toasting cavity and the microwave cooking cavity, respectively.

7. The microwave oven according to claim 6, wherein the doors are rotated forward and backward to open or close the toasting cavity and the microwave cooking cavity, respectively.

8. The microwave oven according to claim 1, wherein a high-voltage transformer and a high-voltage condenser installed in the machine room apply a high voltage to the microwave generating unit, and a cooling fan installed in the machine room cools the high-voltage transformer and the high-voltage condenser.

9. The microwave oven according to claim 4, further comprising an annular air guide member on the sidewall through which the air inlet port is formed and guides air into the toasting cavity.

10. The microwave oven according to claim 4, further including a depressed seat on a rear wall of the toasting cavity.

11. The microwave oven according to claim 10, further including a deodorizing filter seated into the depressed seat.

12. The microwave oven according to claim 11, wherein a perforated cover member is fastened to the depressed seat to cover the deodorizing filter.

13. A microwave oven, comprising:
a microwave generating unit located in a first cavity to generate microwaves into a second cavity adjacent to the first cavity;
at least one heating unit located in a third cavity proximate to the second cavity; and
a ventilating unit to ventilate the third cavity.

14. The microwave oven according to claim 13, wherein the third cavity comprises a toasting cavity located above the second cavity that comprises a microwave cooking cavity, and the first cavity comprises a machine room located at a side of the toasting cavity and the

microwave cooking cavity.

15. The microwave oven according to claim 14, wherein the at least one heating unit comprises an upper heater installed at an upper position in the toasting cavity, and a lower heater installed at a lower position in the toasting cavity, and

a grill member is located above the lower heater, with bread being placed on the grill member.

16. The microwave oven according to claim 14, wherein the ventilating unit comprises:
an air inlet port provided at a predetermined location on a sidewall between the machine room and the toasting cavity;

a ventilating fan mounted at the location on the sidewall through which the air inlet port is formed, thus circulating air from the machine room into the toasting cavity; and

an air outlet port at a predetermined location on a wall of the toasting cavity to discharge air from the toasting cavity to an outside.

17. The microwave oven according to claim 16, further including a deodorizing filter at the portion of the wall through which the air outlet port is formed, thus removing odors from the air which is discharged from the toasting cavity to the outside of the microwave oven.

18. The microwave oven according to claim 14, wherein the toasting cavity and the microwave cooking cavity are opened at fronts thereof, and doors are mounted to the open fronts of the toasting cavity and the microwave cooking cavity, thus opening or closing the toasting cavity and the microwave cooking cavity, respectively.

19. The microwave oven according to claim 18, wherein the doors are rotated forward and backward to open or close the toasting cavity and the microwave cooking cavity, respectively.

20. The microwave oven according to claim 14, further comprising a high-voltage transformer and a high-voltage condenser in the machine room to apply a high voltage to the microwave generating unit, and a cooling fan in the machine room to cool the high-voltage transformer and the high-voltage condenser.

21. The microwave oven according to claim 16, wherein an annular air guide member is on the sidewall through which the air inlet port is formed and guides air into the toasting cavity.

22. The microwave oven according to claim 16, further including a depressed seat located on a rear wall of the toasting cavity.

23. The microwave oven according to claim 22, further including a deodorizing filter seated into the depressed seat.

24. The microwave oven according to claim 23, wherein a perforated cover member is fastened to the depressed seat to cover the deodorizing filter.

25. A method of combining toasting and microwave cooking in a microwave oven, comprising:

partitioning a cabinet into a microwave cooking cavity, a toasting cavity, and a machine room; and

generating microwaves into the microwave cooking cavity and heating the toasting cavity with a heating unit while ventilating the toasting cavity using a ventilating unit.

26. The method according to claim 25, wherein the partitioning comprises dividing the cabinet so that the toasting cavity is above the microwave cooking cavity, and the machine room is at a side of the toasting cavity and the microwave cooking cavity.

27. The method according to claim 25, wherein partitioning further comprises dividing the toasting cavity into an upper portion having an upper heater in the toasting cavity, a lower portion having a lower heater and a grill member above the lower heater so that the grill member supports food/bread to be toasted.

28. The method according to claim 25, wherein ventilating the toasting cavity using a ventilating unit comprises:

utilizing an air inlet port at a predetermined location on a sidewall between the machine room and the toasting cavity to provide access to air outside the microwave oven;

using a ventilating fan mounted on the sidewall through which the air inlet port is formed, to circulate air from the machine room into the toasting cavity; and

using an air outlet port at a predetermined location of a wall of the toasting cavity to discharge air from the toasting cavity to an outside of the microwave oven.

29. The method according to claim 28, further comprising using a deodorizing filter at the portion of the wall through which the air outlet port is formed to remove odors from the air which is discharged from the toasting cavity to the outside of the microwave oven.

30. The method according to claim 25, wherein generating microwaves into the microwave cooking cavity and heating the toasting cavity with a heating unit while ventilating the toasting cavity using a ventilating unit are performed in an order comprising one of: simultaneously, in succession, and in reverse order.